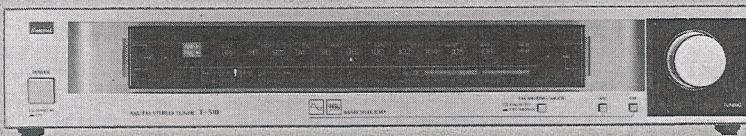


SERVICE MANUAL

AM/FM STEREO TUNER

SANSUI T-510/510L

(Silver & Black Model)



Note

T-510 and T-510L are additional models which external appearances are different from those of T-505 and T-505L.

This manual contains OTHER PARTS LIST, PACKING LIST and ACCESSORY LIST in which changed parts are printed with bold-face.

For other parts list, refer to T-505/505L service manual previously issued.

•SPECIFICATIONS

•T-510

FM Section

Tuning range 88 to 108 MHz
Usable sensitivity

Mono IHF 10.8 dBf (1.9 μ V: T-100)

DIN 0.9 μ V

50 dB quieting sensitivity

Mono 16.5 dBf

Stereo 37.0 dBf

Signal to noise ratio at 65 dBf

Mono 75 dB

Stereo 70 dB

Distortion at 65 dBf

Mono Less than 0.15% at 1,000 Hz

Stereo Less than 0.2% at 1,000 Hz

Alternate channel selectivity (at 400 kHz)

..... 55 dB

Stereo separation

..... 40 dB at 1,000 Hz

Frequency response

..... 30 to 15,000 Hz

+1.0 dB, -1.5 dB

Antenna input impedance

..... 300 ohms balanced

..... 75 ohms unbalanced

AM Section

Tuning range

..... 530 to 1,600 kHz

Usable sensitivity (Loop antenna)

..... 53 dB/m (446 μ V/m)

Signal to noise ratio

..... 45 dB

Image response ratio

..... 40 dB at 1,000 Hz

Others

Output voltage and impedance

..... 500 mV/2.2 kilohms

Power requirements

..... 120/220/240V (50/60 Hz)

For U.S.A. and Canada

..... 120V (60 Hz)

..... 8W

Power consumption

..... 430 mm (16-15/16") W

..... 78 mm (3-1/8") H

..... 238 mm (9-3/8") D

Weight

..... 2.7 kg (6.0 lbs.) net

..... 3.4 kg (7.5 lbs.) packed

•T-510L

FM Section

Tuning range

..... 88 to 108 MHz

Usable sensitivity

Mono IHF 10.8 dBf (1.9 μ V: T-100)

DIN 0.9 μ V

50 dB quieting sensitivity

Mono 16.5 dBf

Stereo 37.0 dBf

Signal to noise ratio at 65 dBf

Mono 75 dB

Stereo 70 dB

Distortion at 65 dBf

Mono Less than 0.15% at 1,000 Hz

Stereo Less than 0.2% at 1,000 Hz

Alternate channel selectivity (at 400 kHz)

..... 55 dB

Stereo separation

..... 40 dB at 1,000 Hz

Frequency response

..... 30 to 15,000 Hz

+1.0 dB, -1.5 dB

Antenna input impedance

..... 300 ohms balanced

..... 75 ohms unbalanced

AM (MW, LW) Section

Tuning range

..... MW: 530 to 1,600 kHz

..... LW: 150 to 350 kHz

Usable sensitivity

..... MW: 53 dB/m (446 μ V/m)

..... LW: 62 dB/m

Signal to noise ratio

..... 45 dB

Image response ratio

..... MW: 40 dB at 1,000 kHz

..... LW: 35 dB at 250 kHz

..... 500 mV/2.2 kilohms

..... 220/240V (50/60 Hz)

..... 8W

..... 430 mm (16-15/16") W

..... 78 mm (3-1/8") H

..... 238 mm (9-3/8") D

Weight

..... 2.7 kg (6.0 lbs.) net

..... 3.4 kg (7.5 lbs.) packed

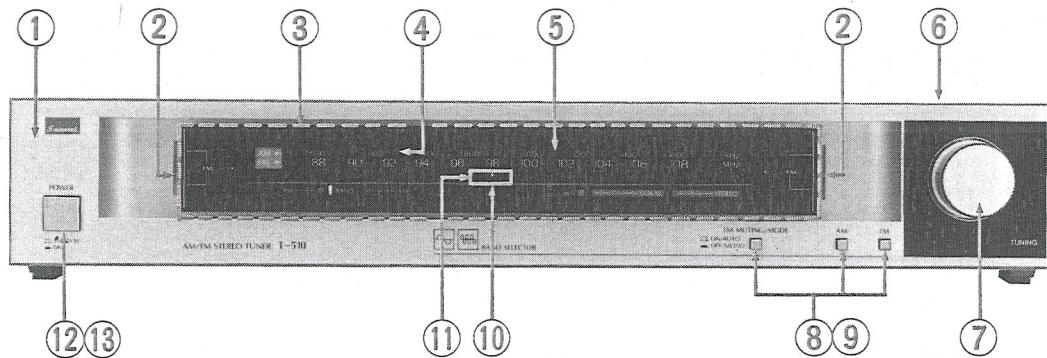
* Design and specifications subject to changes without notice for improvements.

Sansui

SANSUI ELECTRIC CO., LTD.

1. OTHER PARTS

•Front View



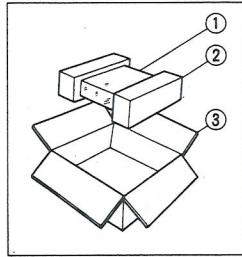
Parts List

Parts No.	Stock No.	Description
1	47354800	Front Panel Ass'y <T-510 Silver Model>
	47422300	Front Panel Ass'y <T-510 Black Model>
	47422400	Front Panel Ass'y <T-510L Silver Model>
	47422500	Front Panel Ass'y <T-510L Black Model>
2	07918500	Dress Knob
3	07919610	Display Holder
4	47431310	Dial Scale <T-510>
5	47354400	Display Cover
6	07962200	Bonnet
7	47430100	Tuning Knob <Silver Model>
	47430200	Tuning Knob <Black Model>

Parts No.	Stock No.	Description
8	46369000	Push SW., BAND SELECTOR FM MUTING/MODE <T-510>
	46368900	Push SW., BAND SELECTOR FM MUTING/MODE <T-510L>
9	07923100	Push Knob, SELECTOR+FM MUTING/MODE <Silver Model>
	07923200	Push Knob, SELECTOR+FM MUTING/MODE <Black Model>
10	07919300	Dial Pointer Adapter Holder
11	46321100	L.E.D. Ass'y (Dial Pointer)
12	46370900	Push Switch, POWER
13	07971210	Push Knob, POWER <Silver Model>
	07911210	Push Knob, POWER <Black Model>

2. PACKING LIST

Parts No.	Stock No.	Description
1	07599500	Vinyl Cover
2	07965300	Styrofoam Packing
3	47368700	Carton Case <T-510 Silver Model>
	47368600	Carton Case <T-510 Black Model>
	47371200	Carton Case <T-510L Silver Model>
	47371100	Carton Case <T-510L Black Model>



3. ACCESSORY LIST

Stock No.	Description
46894100	Operating Instruction <T-510>
46894200	Operating Instruction <T-510L>
46051700	FM Antenna
46145700	AM Loop Antenna
07563000	Antenna Holder
38103200	PJP Cord

SANSUI ELECTRIC CO., LTD.:

SANSUI ELECTRONICS CORPORATION:

SANSUI ELECTRONICS (U.K.) LTD.:
SANSUI ELECTRONICS G.M.B.H.:

14-1, Izumi 2-chome, Suginami-ku, Tokyo 168 Japan

PHONE: (03) 324-8891/TELEX: 232-2076 (International Division)

1250 Valley Brook Ave. Lyndhurst, N.J. 07071 U.S.A.

17150 South Margay Ave. Carson, California 90746 U.S.A.

3036 Koaapaka Street. Honolulu, Hawaii 96819 U.S.A.

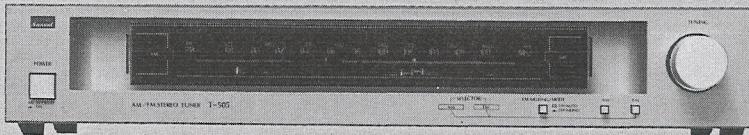
Unit 10A, Lyon Industrial Estate, Rockware Avenue, Greenford, Middx UB6, OAA, England

Pau Ehrich Strasse 8, 6074 Rödermark 2, West Germany

SERVICE MANUAL

AM/FM STEREO TUNER

SANSUI T-505/505L (Silver & Black Model)



• SPECIFICATIONS

• T-505

FM Section

Tuning range	88 to 108 MHz
Usable sensitivity	
Mono IHF	10.8 dBf (1.9 μ V: T-100)
DIN	0.9 μ V
50 dB quieting sensitivity	
Mono	16.5 dBf
Stereo	37.0 dBf
Signal to noise ratio at 65 dBf	
Mono	75 dB
Stereo	70 dB
Distortion at 65 dBf	
Mono	less than 0.15 % at 1,000 Hz
Stereo	less than 0.2 % at 1,000 Hz
Alternate channel selectivity (at 400 kHz)	
	55 dB
Stereo separation	40 dB at 1,000 Hz
Frequency response	30 to 15,000 Hz +1.0 dB, -1.5 dB
Antenna input impedance	
	300 ohms balanced 75 ohms unbalanced

AM Section

Tuning range	530 to 1,600 kHz
Usable sensitivity (Loop antenna)	
	53 dB/m (446 μ V/m)
Signal to noise ratio	45 dB

Others

Output voltage and impedance	500 mV/2.2 kilohms
Power requirements	120/220/240 V (50/60 Hz)
For U.S.A. and Canada	120 V (60 Hz)
Power consumption	8 W
Dimensions	430 mm (16-15/16") W 78 mm (3-1/8") H 238 mm (9-3/8") D
Weight	2.7 kg (6.0 lbs) net 3.4 kg (7.5 lbs) packed

• T-505L

FM Section

Tuning range	88 to 108 MHz
Usable sensitivity	
Mono IHF	10.8 dBf (1.9 μ V: T-100)
DIN	0.9 μ V
50 dB quieting sensitivity	
Mono	16.5 dBf
Stereo	37.0 dBf
Signal to noise ratio at 65 dBf	
Mono	75 dB
Stereo	70 dB
Distortion at 65 dBf	
Mono	less than 0.15 % at 1,000 Hz
Stereo	less than 0.2 % at 1,000 Hz
Alternate channel selectivity (at 400 kHz)	
	55 dB
Stereo separation	40 dB at 1,000 Hz
Frequency response	30 to 15,000 Hz +1.0 dB, -1.5 dB
Antenna input impedance	
	300 ohms balanced 75 ohms unbalanced

AM (MW, LW) Section

Tuning range	MW: 530 to 1,600 kHz LW: 150 to 350 kHz
Usable sensitivity (Loop antenna)	
	MW: 53 dB/m (446 μ V/m) LW: 62 dB/m
Signal to noise ratio	45 dB

Image response ratio . . 40 dB at 1,000 Hz

Others

Output voltage and impedance	500 mV/2.2 kilohms
Power requirements	220, 240 V (50/60 Hz)
Power consumption	8 W
Dimensions	430 mm (16-15/16") W 78 mm (3-1/8") H 238 mm (9-3/8") D
Weight	2.7 kg (6.0 lbs) net 3.4 kg (7.5 lbs) packed

* Design and specifications subject to changes without notice for improvements.

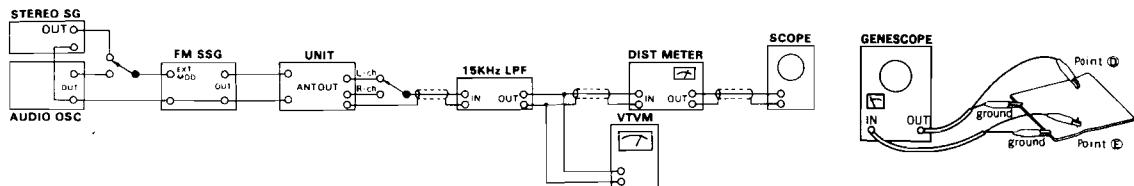
Sansui

SANSUI ELECTRIC CO., LTD.

2. ADJUSTMENTS

2-1. FM Adjustment (See Top View on Page 7)

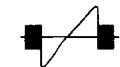
Note: Selector FM



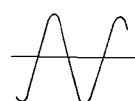
(1) FM IF, RF Adjustment and Dial Calibration

Note: FM MUTING/MODE Switch OFF/MONO

STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
		FROM	TO				
1.	IF Coil Adj.	98MHz ANT Input 20dBf (14.8dB), 1kHz (100% MOD.), FM SSG	ANT terminal 300Ω	Between Point A (sR3) & Earth DC Volt Meter	dT1 (F-3819)	Max. DC Volt (about 1.7V)	
2.	Discriminator Coil Adj. In case of using Genescope	1 No Input	—	Between Point B & Point C (dR41) or Between TP2 & TP3 DC Volt Meter • See Parts Location F-3767 on Page 6	dT2 (F-3767)	DC 0V ± 30mV	
		2 Output 80dB, Genescope	Point D (dTC2)	Between Point E (dD2) & Earth • See Parts Location F-3767 on Page 6	dT3 (F-3767)	Steep linearity of S curve. Make symmetrical S curve.	
3.	90MHz Dial Calibration	1 No Input	—	Between Point B & Point C (dR41) or Between TP2 & TP3 DC Volt Meter • See Parts Location F-3767 on Page 6	dT2 (F-3767)	DC 0V ± 0.1V	<ul style="list-style-type: none"> • Repeat procedures as stated in subject 1 & 2. • Since the dT1 has already adjusted, perform only a fine adjustment in this procedure.
		2 98MHz ANT Input 65dBf (59.8dB), 1kHz (100% MOD.), FM SSG	ANT terminal 300Ω	OUTPUT L-CH or R-CH VTVM & SCOPE	dT3, dT1 (F-3767)	Min. THD	
4.	106MHz Dial Calibration	90MHz ANT Input 65dBf (59.8dB), 1kHz (100% MOD.), FM SSG	Same as above	Dial Pointer	Tuning Knob	90MHz	<ul style="list-style-type: none"> • Repeat procedures as stated in step 3 & 4.
		106MHz ANT Input 65dBf (59.8dB), 1kHz (100% MOD.), FM SSG	Same as above	OUTPUT L-CH or R-CH VTVM & SCOPE	dL3 (F-3819)	Max. Output	
5.	90MHz RF Adj.	90MHz ANT Input Minimum value with sine wave 1000Hz (100% MOD.), FM SSG	Same as above	Dial Pointer	Tuning Knob	106MHz	<ul style="list-style-type: none"> • Repeat procedures as stated in step 3 & 4.
		106MHz ANT Input Minimum value with sine wave 1000Hz (100% MOD.), FM SSG	Same as above	OUTPUT L-CH or R-CH VTVM & SCOPE	dL1, dL2 (F-3819)	Max. Output	
6.	106MHz RF Adj.	106MHz ANT Input Minimum value with sine wave 1000Hz (100% MOD.), FM SSG	Same as above	Same as above	dTC1, dTC2 (F-3819)	Max. Output	



- Repeat procedures as stated in subject 1 & 2.
- Since the dT1 has already adjusted, perform only a fine adjustment in this procedure.



(2) FM STEREO Adjustment

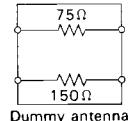
Note: FM Mode AUTO

STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
		FROM	TO				
1.	PLL VCO Adj.	98MHz ANT Input 65dBf (59.8dB), FM SSG, Pilot 19kHz (9% MOD.), R or L MODE 1kHz + Pilot (100% MOD.), STEREO SG	ANT terminal 300Ω	Stereo indicator	dVR2 (F-3767)	Light indicator	Adjust the VR within center of lighting level
	PLL VCO Adj. In case of using Freq.	98MHz ANT Input 65dBf (59.8dB), FM SSG, No MOD.	Same as above	Between Point (F) (Pin 10 of dIC2) & Earth Freq. counter • See Parts Location F-3767 on Page 6	dVR2 (F-3767)	19kHz ± 50 Hz	
2.	Muting level Adj.	98MHz ANT Input 22dBf (16.8dB), FM SSG, Pilot 19kHz (9% MOD.), L or R MODE 1kHz + Pilot (100% MOD.), STEREO SG.	Same as above	Stereo indicator or OUTPUT L-CH or R-CH VTVM & SCOPE	dVR1 (F-3819)	Stereo indicator turns ON or Output Signal comes out	

◆ ADJUSTMENT FOR FM

- There are two kind in indication of FM SG output attenuator
 - Attenuator with marking of 75Ω open . . . open indication type.
 - Attenuator with marking of 75Ω load or close load or close indication type.
- FM SG output level in this FM adjustment are described as open indication type.
- To feed FM signal, a dummy antenna circuit as Fig. 2-1 must be connected between FM SG output and ANT terminal (300Ω) of the unit.

Fig. 2-1



- The following table shows relations among FM SG attenuator indication (dB), available power ratio (dBf) and antenna terminal voltage (dB/ μ V) in each indication type.

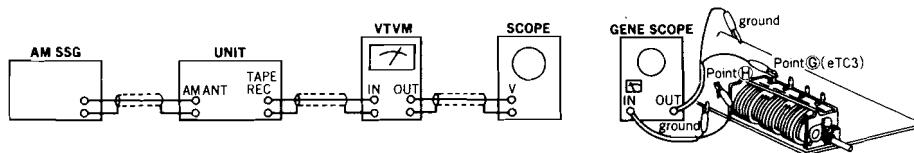
	FM SG Attenuator Indication	Available Power Ratio	Antenna Terminal Voltage
Open indication type	0 dB 66 dB	-0.8 dBf 65.2 dBf	-6 dB/ μ V 60 dB/ μ V
Load or close indication type	0 dB 60 dB	5.2 dBf 65.2 dBf	0 dB/ μ V 60 dB/ μ V

•Abbreviations

Equipment	Genescope	Others
AM FM Generator Oscilloscope	AM SSG	Antenna ANT.
AM Standard Signal Generator	FM SSG	Modulation MOD.
FM Standard Signal Generator	Stereo SG	Total Harmonic Distortion T.H.D.
FM Stereo Generator	Scope	
Oscilloscope	Audio Osc.	
Audio Oscillator	Dist. Meter	
Distortion Meter		

2-2. AM Adjustment (See Top View on Page 7)

Note: BAND SELECTOR AM



(1) AM IF Adjustment & MW AM Dial Calibration

Note: BAND SELECTOR MW

STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
		FROM	TO				
1.	IF Coil Adj.	Genescope Output 60dB	Point G (eTC3)	Point H (eR26) • See Parts Location F-3746 on Page 7	eCF1 eL2 (F-3746)	Max. Waveform	
2.	600kHz Dial Calibration	600kHz ANT Input 60dB 400Hz (30% MOD.) AM SSG	ANT terminal	Dial Pointer	Tuning Knob	600kHz	
				OUTPUT L-CH or R-CH VTVM & Scope	eT3 (F-3819)	Max. Output	
3.	1400kHz Dial Calibration	1400kHz ANT Input 60dB 400Hz (30% MOD.) AM SSG	Same as above	Dial Pointer	Tuning Knob	1400kHz	
				OUTPUT L-CH or R-CH VTVM & Scope	eTC3 (F-3819)	Max. Output	
4.	600kHz RF Adj.	600kHz ANT Input 50dB 400Hz (30% MOD.) AM SSG	Same as above	OUTPUT L-CH or R-CH VTVM & Scope	eT1 (F-3819)	Max. Output	
5.	1400kHz RF Adj.	1400kHz ANT Input 50dB 400Hz (30% MOD.) AM SSG	Same as above	OUTPUT L-CH or R-CH VTVM & Scope	eTC2 (F-3819)	Max. Output	

(2) LW Dial Calibration (T-505L Only)

Note: BAND SELECTOR LW

STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
		FROM	TO				
1.	170kHz Dial Calibration	170kHz ANT Input 60dB 400Hz (30% MOD.) AM SSG	ANT terminal	Dial Pointer	Tuning Knob	170kHz	
				OUTPUT L-CH or R-CH VTVM & Scope	eT4 (F-3819)	Max. output	
2.	300kHz Dial Calibration	300kHz ANT Input 60dB 400Hz (30% MOD.) AM SSG	Same as above	Dial Pointer	Tuning Knob	300kHz	
				OUTPUT L-CH or R-CH VTVM & Scope	eTC1b (F-3819)	Max. Output	
3.	170kHz RF Adj.	170kHz ANT Input 50dB 400Hz (30% MOD.) AM SSG	Same as above	OUTPUT L-CH or R-CH VTVM & Scope	eT2 (F-3819)	Max. Output	
4.	300kHz RF Adj.	300kHz ANT Input 50dB 400Hz (30% MOD.) AM SSG	Same as above	OUTPUT L-CH or R-CH VTVM & Scope	eTC1a (F-3819)	Max. Output	

3. MAIN PARTS REPLACEMENT

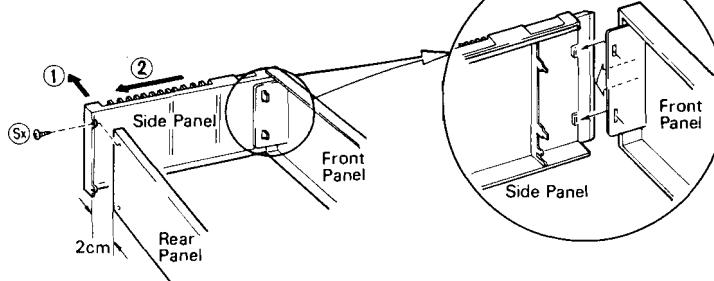
A. Side Panel L (R)

- 1) Remove bonnet and bottom plate.
- 2) Remove circuit board F-3820 from display stage.
- 3) Remove the screw (Sx) fixing side panel L (R) from repanel side.
- 4) Shift the position of the side panel L (R) 2 cm in the arrow direction ① and then pull it the arrow direction ② to remove the side panel L (R). (See Fig. 3-1)

B. Front Panel Ass'y (See page 7 Top View)

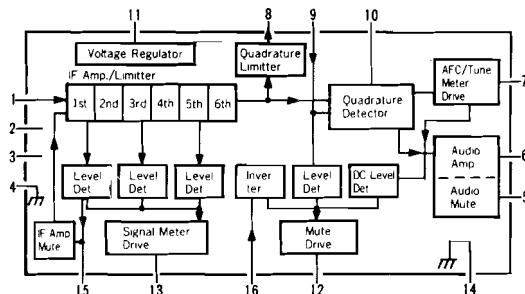
- 1) Remove the bonnet and bottom plate.
- 2) Remove side panel L and R (See Replacement A)
- 3) Loosen two screws fixing pulley bracket (X).
- 4) Remove the dial pointer clip (Y).
- 5) Remove the tuning unit from front panel.
- 6) Pull out the F-3822 from front panel ass'y.
- 7) Remove the front panel ass'y.

Fig. 3-1

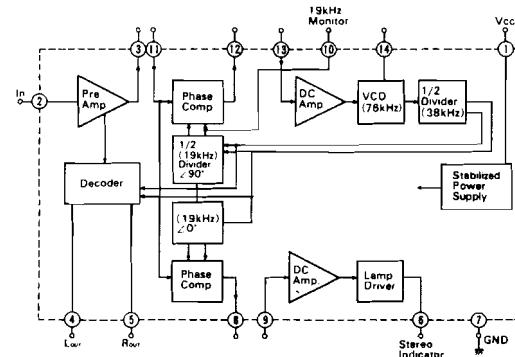


4. INTERIOR BLOCK DIAGRAM OF IC

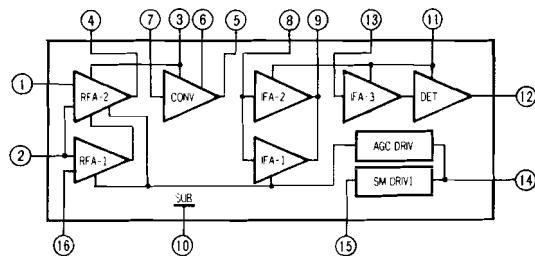
• LA1231N (IF & Quadrature Detector IC)



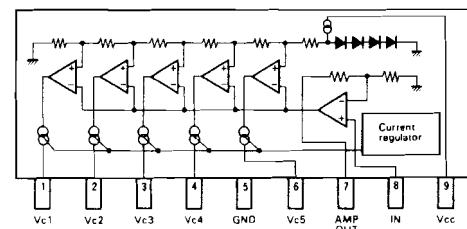
• HA1156 (MPX IC)



• LA1240 (AM Tuner IC)



• BA6137 (L.E.D. Drive IC)

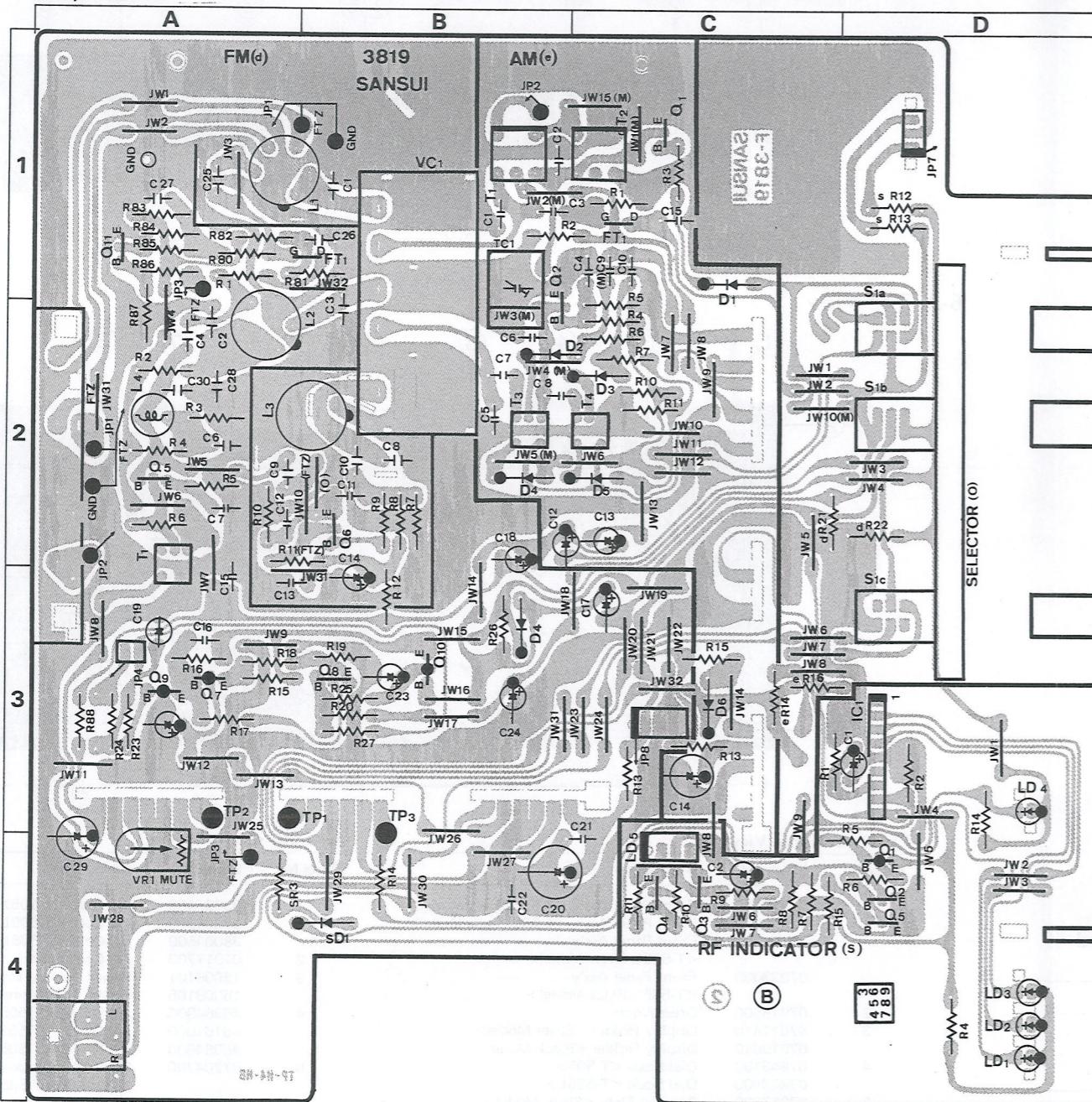


5. PARTS LOCATION & PARTS LIST

5-1. F-3819 FM · AM RF & RF Ind. Control Circuit Board

- Since some of capacitors and resistors are omitted from parts lists in this Service Manual, refer to the Common Parts List for capacitors & resistors, which was appended previously to Sansui Manual.

Component Side (Stock No. 00700801= T-505/00700805 = T-505L)



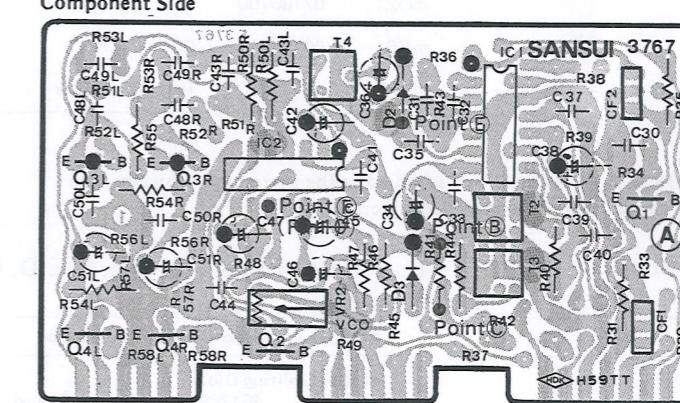
Parts List

Parts No.	Stock No.	Description
●Transistor		
dQ5	46426701	2SC2999SPA
	or 46393201	2SC2786
dQ6	46392401	2SC2668
dQ7	46392001	2SA1175
	or 46367001	2SA1115
dQ8	46391901	2SC2785
	or 46367101	2SC2603
dQ9	46367201	2SA1048
	or 46367001	2SA1115
dQ10	46392001	2SA1175
	or 46367001	2SA1115

Parts No.	Stock No.	Description
•FET dFT1	46393000 or 46393001	2SK192A-Y 2SK192A-GR
•Diode dD4	03117600	1S2473D
dR13 dR88	46228200 46229000	22Ω 1/2W N.I.R. 100Ω 1/2W N.I.R.
dC19	08451900	3.3μF 50V E.B.
dVC1	46369700	Variable Capacitor

Parts No.	Stock No.	Description
dL1	42007200	FM RF Coil
dL2	42103400	FM RF Coil
dL3	42204000	FM OSC Coil
dL4	49003000	Peaking Coil 2.2 μ H
dT1	46369500	FM IF Coil
dVR1	10370700	10k Ω (B) SVR, Muting Level Adj.
●Transistor		
eQ1	46118801	2SC2878 <T-505L Only>
eQ2	46118801	2SC2878 <T-505L Only>
●FET		
eFT1	46393000	2SK192A-Y <T-505L Only>
	or 46393001	2SK192A-R <T-505L Only>
●Diode		
eD1	03117600	1S2473D <T-505L Only>
eD2	03117600	1S2473D <T-505L Only>
eD3	03117600	1S2473D <T-505L Only>
eD4	03117600	1S2473D <T-505L Only>
eD5	03117600	1S2473D <T-505L Only>
eD6	03117600	1S2473D
eR13	46229000	100 Ω 1/2W N.I.R.
eTC1	46370700	Trimmer Capacitor 16pF <T-505L Only>
eT1	46260600	AM RF Coil
eT2	46260700	LW RF Coil <T-505L Only>
eT3	46369300	AM OSC Coil
eT4	46369400	LW OSC Coil <T-505L Only>

5-2. F-3767 FM IF Circuit Board (Stock No. 00700301)



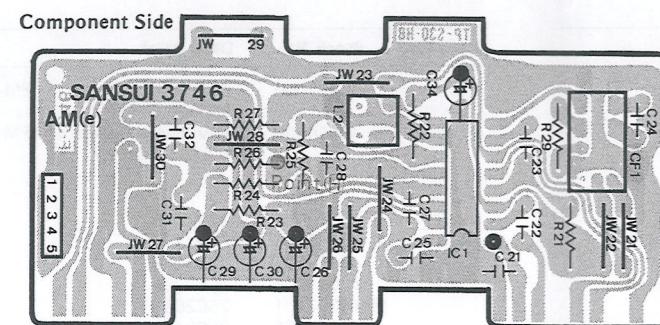
Parts L

Parts No.	Stock No.	Description
●Transistor		
dQ1	46393101	2SC2839
	or 46393201	2SC2786
dQ2	46391901	2SC2785
	or 46367101	2SC2603
	or 46367301	2SC2458
dQ3	46392001	2SA1175
	or 46367001	2SA1115
	or 46367201	2SA1048
dQ4	46391901	2SC2785
	or 46367101	2SC2603
●IC		
diC1	07191200	LA1231N
diC2	03603000	HA1156W

Parts No.	Stock No.	Description
oS1	46369000	Push Switch, Selector · FM Muting <T-505 Only>
	or 46368900	Push Switch, Selector · FM Muting <T-505L Only>
● Transistor		
sQ1	46392001	2SA1175
	or 46367001	2SA1115
	or 46367201	2SA1048
sQ2	46391901	2SC2785
	or 46367101	2SC2603
	or 46367301	2SC2458
sQ3	46391901	2SC2785
	or 46367101	2SC2603
	or 46367301	2SC2458
sQ4	46391901	2SC2785
	or 46367101	2SC2603
	or 46367301	2SC2458
sQ5	46391901	2SC2785
	or 46367101	2SC2603
	or 46367301	2SC2458
● IC		
sIC1	46197200	BA6137
● Diode		
sD1	03117600	1S2473D
● Light Emitting Diode		
sLD1	07250900	TLG-123A (Green)
sLD2	07250900	TLG-123A (Green)
sLD3	07250900	TLG-123A (Green)
sLD4	46176900	TLS-123 (Red)

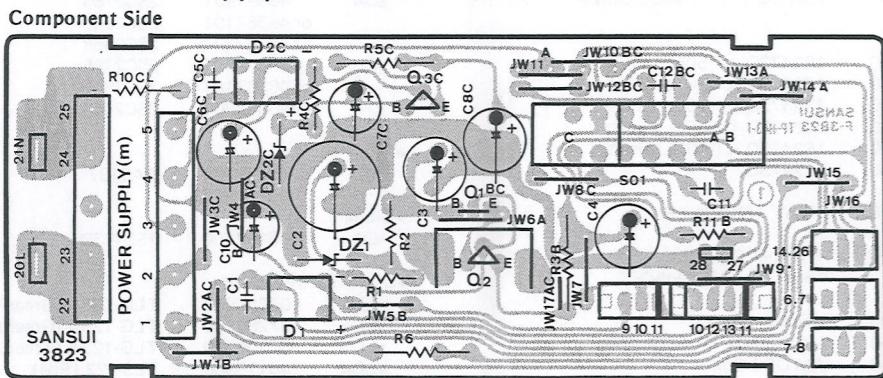
Parts No.	Stock No.	Description
•Diode		
dD2	03117600	1S2473D
dD3	03117600	1S2473D
dCF1	09106410	Ceramic Filter 10.7 MHz
dCF2	09106410	Ceramic Filter 10.7 MHz
dT2	46369100	FM Detector Coil
dT3	46369200	FM Detector Coil
dVR2	10370600	5kΩ (B) SVR VCO adj.

5-3. F-3746 AM Tuner Circuit Board (Stock No. 00700401)



Parts List		
Parts No.	Stock No.	Description
•IC		
eIC1	03608000 or 03603900	LA1240 HA1197
eCF1	07250500	Ceramic Filter 455 kHz
eL2	46369600	AM IF Coil

5-4. F-3823 Power Supply Circuit Board (Stock No. 00701201)



Parts List		
Parts No.	Stock No.	Description
•Transistor		
mQ2	03083901	2SD313
•Diode		
mD1	46273600	DBB10-B

Parts No.	Stock No.	Description
•Zener Diode		
mDZ1	07180700	RD15E-B
mR6	00182100	33Ω 1W N.I.R.
mS1	46370900	Push SW., Power

• The circuit boards, F-3820 & F-3822 are not supplied as the assembled. However, the individual parts on the circuit boards are provided by orders.

5-5. F-3820 Illumination Lamp Circuit Board

Parts List		
Parts No.	Stock No.	Description
sPL1	46315900	Pilot Lamp 150mA 12V

* Concerning Printed Resistor and Printed Silver Pattern

In this model, printed circuit board is used on which carbon resin resistance and silver foil pattern are coated. And it is impossible to replace those parts. Therefore, please keep following procedures when repairing or ordering the parts.

- When repairing the printed resistor, cut off center portion of the resistor to make complete open circuit. Then solder 1/3 W type carbon resistor to conductor side of the PCB.
- When repairing the printed silver pattern, solder lead wire to conductor side of the PCB.
- When ordering the 1/3 W type carbon resistor, read the resistance value from the schematic diagram, and refer to "Common Parts List for Resistors and Capacitors".

4-6. F-3822 FM & AM Ind. L.E.D. Circuit Board

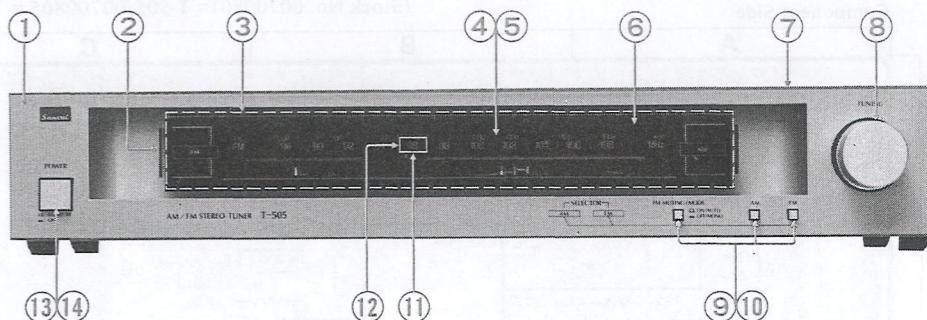
Parts List		
Parts No.	Stock No.	Description
•Light Emitting Diode		
sLD6	46176900	TLS-123 (Red)
sLD7	46176900	TLS-123 (Red)

• Abbreviations

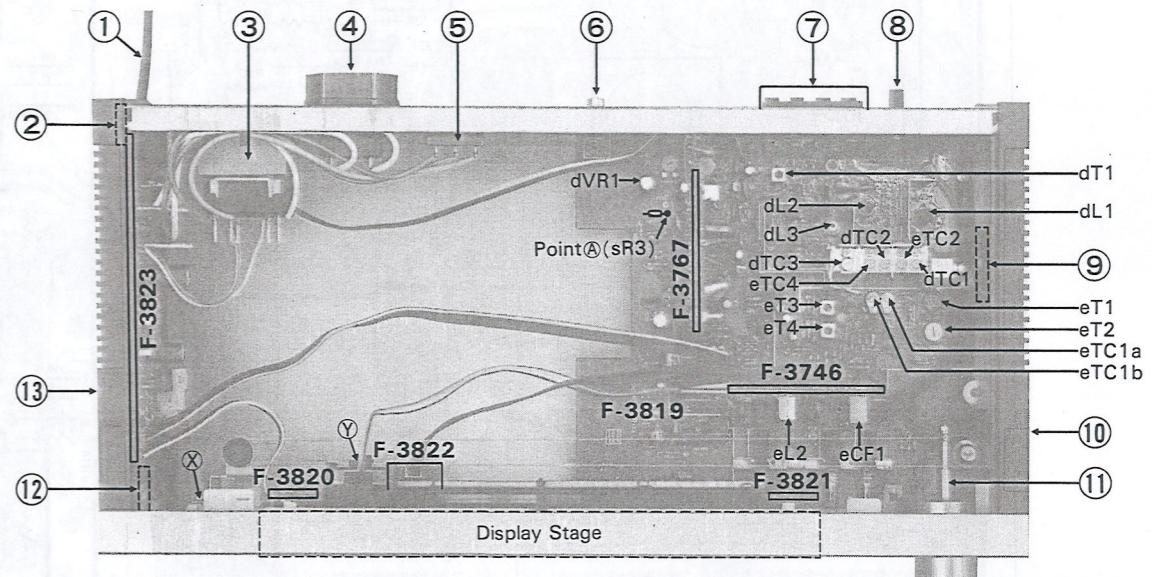
C.R. : Carbon Resistor	E.B. : Bi-Polar Electrolytic Capacitor
S.R. : Solid Resistor	E.BL. : Low Leak Bi-Polar Electrolytic Capacitor
Ce.R. : Cement Resistor	Ta.C. : Tantalum Capacitor
M.R. : Metal Film Resistor	F.C. : Film Capacitor
F.R. : Fusing Resistor	M.P. : Metallized Paper Capacitor
N.I.R. : Non-Inflammable Resistor	P.C. : Polystyrene Capacitor
C.C. : Ceramic Capacitor	G.C. : Gimmie Capacitor
C.T. : Ceramic Capacitor, Temperature Compensation	V.R. : Variable Resistor
E.C. : Electrolytic Capacitor	S.V.R. : Semi Variable Resistor
E.L. : Low Leak Electrolytic Capacitor	SW. : Switch

6. OTHER PARTS

6-1. Front View



6-2. Top View



Parts List <Front View>

Parts No.	Stock No.	Description
1	07922700	Front Panel Ass'y <T-505 Silver Model>
	07922800	Front Panel Ass'y <T-505 Black Model>
	07922900	Front Panel Ass'y <T-505L Silver Model>
07923000		Front Panel Ass'y <T-505L Black Model>
2	07918500	Dress Knob
3	47011410	Display Holder <Silver Model>
	07919610	Display Holder <Black Model>
4	07943100	Dial Scale <T-505>
	07943400	Dial Scale <T-505L>
5	07953800	Smoked Plate <Silver Model>
	07953700	Smoked Plate <Black Model>
6	07918900	Display Cover
7	07962200	Bonnet
8	07961500	Tuning Knob <Silver Model>
	47033500	Tuning Knob <Black Model>
9	46369000	Push Switch, SELECTOR·FM MUTING <T-505>
	46368900	Push Switch, SELECTOR·FM MUTING <T-505L>
10	07923100	Push Knob, SELECTOR·FM MUTING <Silver Model>
	07923200	Push Knob, SELECTOR·FM MUTING <Black Model>
11	07919300	Dial Pointer Holder
12	46321100	L.E.D. Ass'y (Dial Pointer)
13	46370900	Push Switch, Power
14	07971210	Push Knob, Power <Silver Model>
	07911210	Push Knob, Power <Black Model>

Parts List <Top View>

Parts No.	Stock No.	Description
1	38005400	AC Cord <T-505>
	38004300	AC Cord <T-505L BS>
	38004500	AC Cord <T-505L EU>
2	07917700	AC Cord Cover
3	15008101	Power Transformer <T-505>
	15008105	Power Transformer <T-505L>
4	46364900	AC Outlet <T-505>
	46161000	AC Outlet <T-505L EU>
	46364800	AC Outlet <T-505L BS>
5	07204700	Slide SW. voltage selector (220/240 V T-505L)
6	46363700	2P Output Terminal Board
7	46364200	Antenna Terminal Board
8	22301500	GND Terminal
9	07955700	Pulley
10	07965500	Side Panel Ass'y (Right)
11	07964600	Tuning Unit
12	07963900	Joint Shaft
13	07965400	Side Panel Ass'y (Left)

• Note:

As to BS and EU marked in the Parts Lists, note the followings:

BS . . . Parts used in the unit which is applicable to British under industrial standards.

EU . . . Parts used in the unit which is applicable to Sweden, Denmark, Norway, Finland, West Germany, and Switzerland under industrial standards.

A

B

C

D

E

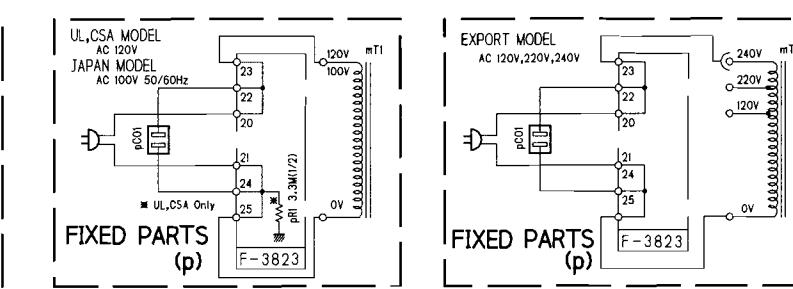
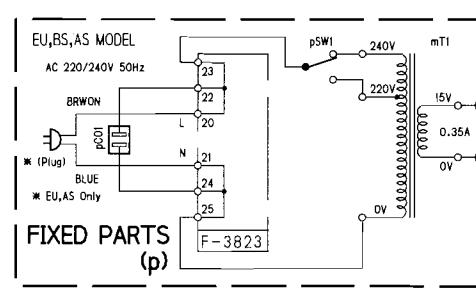
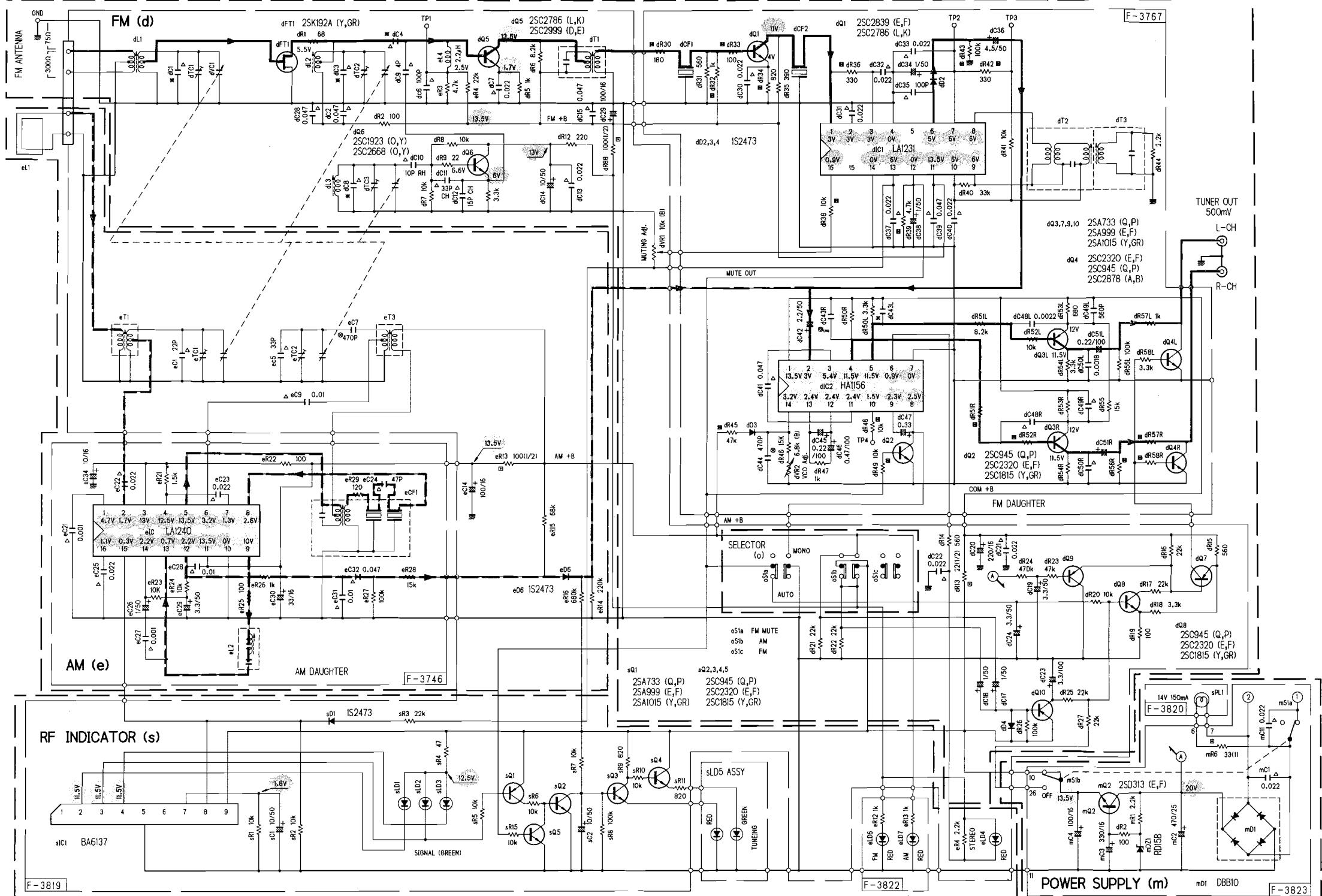
F

G

H

7. SCHEMATIC DIAGRAM

7-1. T-505



	JAPAN	EXPORT	SABS	EU,AS,BS
dC1	18P RH	2P RH	12P RH	12P RH
dC3	22P RH	15P RH	15P RH	15P RH
dC4	8P CH	7P CH	8P CH	7P CH
dC8	15P SH	15P SH	10P SH	15P SH
dC9	0.015	0.02	0.02	0.015

SYMBOL OF FUNCTION

- (d) FM
- (e) AM
- (s) RF INDICATOR
- (o) SELECTOR
- (n) POWER SUPPLY
- (p) FIXED PARTS

RESISTORS
Are in ohms, 1/4 Watts, ±5% Tolerance
Unless Otherwise Noted. k-KΩ, M-MΩ

CAPACITORS
Are in μ F, Unless Otherwise Noted. P-pF

TOLERANCE
 $\pm 5\%$ G:±2% F:±1%

Each D.C. Voltage shows the nominal value
in volts at no input signal.
Electrolytic Capacitor:Capacitance (μ F)/Voltage (V)

SYMBOL

- △ Ceramic Capacitor
- ◎ Mylar
- Polystyrene
- Non-Inflammable Resistor
- Printed Resistor

— FM Signal Line
- - - MW Signal Line

